



## Replacement Sheet



	10	20	30	40	50	60	70	80	
1	CCAAAAATAAGAACTAAAAGCTGCAAAAGTAATAAAAAATATATTTAGCCGAAAAAATTTCCATAATAAACAATTTCTAGA NetGen								
1	[...].AAATAAGAACTAAAAGCTGCAAAAGTAATAAAAAATATATTTAGCCGAAAAAATTTCCATAATAAACAATTTCTAGA cDNA								
	90	100	110	120	130	140	150	160	
81	AGTGGGAGCGTACACCCCTGTTATGGAGAGTGACGATTTTCATTTACCGCAAGGCGCCCAATTAAGGGGAAAAATCCATAA NetGen								
77	AGTGGGAGCGTACACCCCTGTTATGGAGAGTGACGATTTTCATTTACCGCAAGGCGCCCAATTAAGGGGAAAAATCCATAA cDNA								
	170	180	190	200	210	220	230	240	
161	ATCGAGGATTACAAGTGGAAAAACAAGGAGGCGAGTAACCTCCAGAAAAACGCCCAAAAGTCCAAAAATGGCAGCACCCAGAGAC NetGen								
157	ATCGAGGATTACAAGTGGAAAAACAAGGAGGCGAGTAACCTCCAGAAAAACGCCCAAAAGTCCAAAAATGGCAGCACCCAGAGAC cDNA								
	250	260	270	280	290	300	310	320	
241	GGGCAACACGGGCTCCACAGGATCCGCTGGCTCGACAGGATCGGGATCGGGATCGGGATCGGGAGTGGGAGCTCCTCAG NetGen								
237	GGGCAACACGGGCTCCACAGGATCCGCTGGCTCGACAGGATCGGGATCGGGATCGGGATCGGGAGTGGGAGCTCCTCAG cDNA								
	330	340	350	360	370	380	390	400	
321	ATCCAGCGAATGGACGGGAGGCCCGTAACCTTGCCGAAAAACAGCGACGGGATAAGCTTAATGCCAGCATCCAGGAGCTG NetGen								
317	ATCCAGCGAATGGACGGGAGGCCCGTAACCTTGCCGAAAAACAGCGACGGGATAAGCTTAATGCCAGCATCCAGGAGCTG cDNA								
	410	420	430	440	450	460	470	480	
401	GCCACCATGGTACCACATGCAGCCGAATCCTCCCGTCGCCCTGGACAAAACCGCCGTCCTTAGATTGCCACCCCATGGCCT NetGen								
397	GC[T]ACCATGGTACCACATGCAGCCGAATCCTCCCGTCGCCCTGGACAAAACCGCCGTCCT[CA]GATT[TT]GCCACCCCATGGCCT cDNA								
	490	500	510	520	530	540	550	560	
481	GAGACTTCAGTATGTCTTTGGCAAGTCCGCTTCCAGACGTCGCAAGAAAACCGGCCCTCAAGGGAAACGGGTATGTCTGCCT NetGen								
477	GAGACTTCAGTATGTCTTTGGCAAGTCCGCTTCCAGACGTCGCAAGAAAACCGGCCCTCAAGGGAAACGGGTATGTCTGCCT cDNA								

Match line to Fig. 3B

Fig. 3A



Match line to Fig. 3A

570	580	590	600	610	620	630	640
561	CACCTGTCGGAGATCTACCCCAATCCCAGTCTGCATCTAACGGACACTCTAATGCAACTGCTGGACTGCTGCTTCCTCACC	NetGen					
557	CACCTGTCGGAGATCTACCCCAATCCCAGTCTGCATCTAACGGACACTCTAATGCAACTGCTGGACTGCTGCTTCCTCACC	cDNA					
650	660	670	680	690	700	710	720
641	CTAACCTGCAGTGGCCAAATCGTTTTGGTATCCACCAGCGTGGAGCAGCTATTGGGTCACTGTCAGTCCGATTTGTATGG	NetGen					
637	CTAACCTGCAGTGGCCAAATCGTTTTGGTATCCACCAGCGTGGAGCAGCTATTGGGTCACTGTCAGTCCGATTTGTATGG	cDNA					
730	740	750	760	770	780	790	800
721	CCAGAATCTACTGCAGATCAGCATCCCGATGATCAGGATCTGTTAAGACAGCAGCTAATACCCAGGGATATAGAGACCC	NetGen					
717	CCAGAATCTACTGCAGATCAGCATCCCGATGATCAGGATCTGTTAAGACAGCAGCTAATACCCAGGGATATAGAGACCC	cDNA					
810	820	830	840	850	860	870	880
801	TGTTCTATCAGCATCAGCACCCAGCAGCAGGGGCACAAATCCCAGCAGCAGCTCCACTTCCACGTCGGCCTCARCTTCG	NetGen					
797	TGTTCTATCAGCATCAGCACCCAGCAGCAGGGGCACAAATCCCAGCAGCAGCTCCACTTCCACGTCGGCCTCARCTTCG	cDNA					
890	900	910	920	930	940	950	960
881	GGCAGTGATCTGGAGGAGGAGGAAATGGAGACGGAGGAACACCGTCTGGGTTCGGCAGCAGGGAGAGGGGACGATGACGA	NetGen					
877	GGCAGTGATCTGGAGGAGGAGGAAATGGAGACGGAGGAACACCGTCTGGGTTCGGCAGCAGGGAGAGGGGACGATGACGA	cDNA					
970	980	990	1000	1010	1020	1030	1040
961	GGATCACCCGTACAACCGACGAACACCCAGCCCGCGGAGAAATGGCCCATTTGGCGACCAATTTGATGACCCGACTACGCATGG	NetGen					
957	GGATCACCCGTACAACCGACGAACACCCAGCCCGCGGAGAAATGGCCCATTTGGCGACCAATTTGATGACCCGACTACGCATGG	cDNA					
1050	1060	1070	1080	1090	1100	1110	1120
1041	ATCGGCGCTGCTTTACCGTCCGCTTGGCTAGGGCTTCCACGCGAGCGGAGGCCACGCGTCATTACGAGCGGGTTAAGATC	NetGen					
1037	ATTTGGCGCTGCTTTACCGTCCGCTTGGCTAGGGCTTCCACGCGAGCGGAGGCCACGCGTCATTACGAGCGGGTTAAGATC	cDNA					

Match line to Fig. 3C

Fig. 3B



Match line to Fig. 3B

1130	1140	1150	1160	1170	1180	1190	1200
1121	GATGGCTGCTTTTCGTCGCAGTGACTCCTCCTTAACCGGAGGTGCCGCTGCCAAGCTATCCGATTGCTCTCCAGCTGATACG	NetGen					
1117	GATGGCTGCTTTTCGTCGCAGTGACTCCTCCTTAACCGGAGGTGCCGCTGCCAAGCTATCCGATTGCTCTCCAGCTGATACG	cDNA					
1210	1220	1230	1240	1250	1260	1270	1280
1201	ACGCTCGAGAAACAACAATATGCTGGCTGCTGCTGCAGCAGTGGCAGCAGAAAGCGCGACGGTGCCGCCCCAGCACGATG	NetGen					
1197	ACGCTCGAGAAACAACAATATGCTGGCTGCTGCTGCAGCAGTGGCAGCAGAAAGCGCGACGGTGCCGCCCCAGCACGATG	cDNA					
1290	1300	1310	1320	1330	1340	1350	1360
1281	CCATTGCCAGCGCGGCTGCACGGGATTAGCGGCAATGATATTGTCTCTGGTGGCCATGGCCAGGGTGCTGCGAGAGGAA	NetGen					
1277	CCATTGCCAGCGCGGCTGCACGGGATTAGCGGCAATGATATTGTCTCTGGTGGCCATGGCCAGGGTGCTGCGAGAGGAA	cDNA					
1370	1380	1390	1400	1410	1420	1430	1440
1361	CGGCCGCTGAGGAGACGGAGGGTACAGTGGGCTTGACCATTTACAGACAGCCAGAACCCCTATCAGTTGGAGTACCATAC	NetGen					
1357	CGGCCGCTGAGGAGACGGAGGGTACAGTGGGCTTGACCATTTACAGACAGCCAGAACCCCTATCAGTTGGAGTACCATAC	cDNA					
1450	1460	1470	1480	1490	1500	1510	1520
1441	GAGGCATCTAATCGACGGCAGCATCATCGACTGTGATCAAAGGATTGGTCTGGTGGCGGGATATATGAAGGATGAGGTGG	NetGen					
1437	GAGGCATCTAATCGACGGCAGCATCATCGACTGTGATCAAAGGATTGGTCTGGTGGCGGGATATATGAAGGATGAGGTGG	cDNA					
1530	1540	1550	1560	1570	1580	1590	1600
1521	CTATATTAAACATCATCTCTCAACTGCTTACGACAACCTAATCGTGTACTCTCCACTCGAAACAGGTGCGCAACCTTAGG	NetGen					
1517	CTATATTAAACATCATCTCTCAACTGCTTACGACAACCTAATCGTGTACTCTCCACTCGAAACAGGTGCGCAACCTTAGG	cDNA					
1610	1620	1630	1640	1650	1660	1670	1680
1601	CCCTTCTGTTTCATGCACCTGGACGACGCTTCGCTGGGTGATTGTGGCCCTTCGACAAAATGTACGATTGCAACAGTACTA	NetGen					
1597	CCCTTCTGTTTCATGCACCTGGACGACGCTTCGCTGGGTGATTGTGGCCCTTCGACAAAATGTACGATTGCAACAGTACTA	cDNA					

Match line to Fig. 3D

Fig. 3C



Match line to Fig. 3C

1690	1700	1710	1720	1730	1740	1750	1760
1681 CGCGGAGAGCTGCTACCGTCTGCTGTCCCGCAACGGCGGCTTCATTTACCTGCACACCAAGGATTTCTGGAGGTCGACC NetGen							
1677 TGGCGAGAGCTGCTACCGTCTGCTGTCCCGCAACGGCGGCTTCATTTACCTGCACACCAAGGATTTCTGGAGGTCGACC cDNA							
1770	1780	1790	1800	1810	1820	1830	1840
1761 GTGGCAGTAA TAAGGTGCATTCCTTTCTGTGCGTCAACACGCTGCTCGATGAGGAGCGGGCCGGCAAAAGGTGCAGGAG NetGen							
1757 GTGGCAGTAA TAAGGTGCATTCCTTTCTGTGCGTCAACACGCTGCTCGATGAGGAGCGGGCCGGCAAAAGGTGCAGGAG cDNA							
1850	1860	1870	1880	1890	1900	1910	1920
1841 ATGAAGGAGAAATTCGACAAATCATCAAGGCGGAGATGCCACGCGAGAGCAGTCCCGATTTGCCCGCCCTCGCAGGC NetGen							
1768 ATGAAGGAGAAATTCGACAAATCATCAAGGCGGAGATGCCACGCGAGAGCAGTCCCGATTTGCCCGCCCTCGCAGGC cDNA							
1930	1940	1950	1960	1970	1980	1990	2000
1921 ACCGCAGCAACTTGAGAGAAATGTCCCTCTATCTAATAGAGAACTTACAGAAAGAGTGTGGATTCAGCAGAGACGGTTGGCG NetGen							
1848 ACCGCAGCAACTTGAGAGAAATGTCCCTCTATCTAATAGAGAACTTACAGAAAGAGTGTGGATTCAGCAGAGACGGTTGGCG cDNA							
2010	2020	2030	2040	2050	2060	2070	2080
2001 GCCAGGGCATGGAAAGCCCTAATGGACGATGGCTACAGTTCGCCAGCAAAATACCTTAACCTCTCGAGGAGTTAGCTCCCTCG NetGen							
1928 GCCAGGGCATGGAAAGCCCTAATGGACGATGGCTACAGTTCGCCAGCAAAATACCTTAACCTCTCGAGGAGTTAGCTCCCTCG cDNA							
2090	2100	2110	2120	2130	2140	2150	2160
2081 CCCACGCGCGCCCTTGGCCCTTGGTGCCGCGGCTCCCTCATCGGTCAAGAGCTCCATCTCCAAGTCGGTGGTGGTCAA NetGen							
2008 CCCACGCGCGCCCTTGGCCCTTGGTGCCGCGGCTCCCTCATCGGTCAAGAGCTCCATCTCCAAGTCGGTGGTGGTCAA cDNA							
2170	2180	2190	2200	2210	2220	2230	2240
2161 TGTACGCGCGCGCCAGAAAGTTTCAGCAGGAGCATCAGAAGCAGCGGTGAACGTGACCGTGAGCAGCTTAAGGAGCGCACCA NetGen							
2088 TGTACGCGCGCGCCAGAAAGTTTCAGCAGGAGCATCAGAAGCAGCGGTGAACGTGACCGTGAGCAGCTTAAGGAGCGCACCA cDNA							

Match line to Fig. 3E

Fig. 3D



Match line to Fig. 3D

2250	2260	2270	2280	2290	2300	2310	2320
2241	ACTCCACGCGGGCGT	GATCCGGCAACTGAG	CAGCTGCCTAAGCG	GAGCGGAAACGGCA	TCCTGTATCCTAT	CACACAGCC	NetGen
2168	ACTCCACGCGGGCGT	GATCCGGCAACTGAG	CAGCTGCCTAAGCG	GAGCGGAAACGGCA	TCCTGTATCCTAT	CACACAGCC	cDNA
2330	2340	2350	2360	2370	2380	2390	2400
2321	AGTAGCTTGAGTGCC	AGCAGCCGACACG	CCCGATCCGCACAG	CAACACATCACCG	CCACCGTCGCT	CCACACACG	NetGen
2248	AGTAGCTTGAGTGCC	AGCAGCCGACACG	CCCGATCCGCACAG	CAACACATCACCG	CCACCGTCGCT	CCACACACG	cDNA
2410	2420	2430	2440	2450	2460	2470	2480
2401	TCCCAGTGCTCGAT	CGAACCCCTGACCA	GCACGCTGCGATG	ACGGGCTGATGGA	ACCTGGTTGCC	TTCTAATTGGGTG	NetGen
2328	TCCCAGTGCTCGAT	CGAACCCCTGACCA	GCACGCTGCGATG	ACGGGCTGATGGA	ACCTGGTTGCC	TTCTAATTGGGTG	cDNA
2490	2500	2510	2520	2530	2540	2550	2560
2481	TGTGGAAATGGACG	TAAATGGTAGCTCA	CGTGCCCAACAAAC	GAAATAGTATCGGT	AATATATCCTGG	CCAAATCGCAATG	NetGen
2408	TGTGGAAATGGACG	TAAATGGTAGCTCA	CGTGCCCAACAAAC	GAAATAGTATCGGT	AATATATCCTGG	CCAAATCGCAATG	cDNA
2570	2580	2590	2600	2610	2620	2630	2640
2561	TGAAACCCCAAAAT	GTATCAGAAAAAAAC	GAGCATTATTCAAAT	AGTTTAAAAATTC	AGCCAAAAAACTT	AAAAACGAA	NetGen
2488	TGAAACCCCAAAAT	GTATCAGAAAAAAAC	GAGCATTATTCAAAT	AGTTTAAAAATTC	AGCCAAAAAACTT	AAAAACGAA	cDNA
2650	2660	2670	2680	2690	2700	2710	2720
2641	AAAAAGAGCGTGGG	TGAAGAACCTTTTGT	TTCATATTCACATT	TCCAAAGCTTTCA	AGCAATCAAACTT	TAAATTTT	NetGen
2568	AAAAAGAGCGTGGG	TGAAGAACCTTTTGT	TTCATATTCACATT	TCCAAAGCTTTCA	AGCAATCAAACTT	TAAATTTT	cDNA
2730	2740	2750	2760	2770	2780	2790	2800
2721	CAGTATACACATAT	GTATATGAGTTGGCT	TACAAAAGCTATT	AACAAATCAAGCA	ATTGTGTAATTTA	TATATGAGACT	NetGen
2648	CAGTATACACATAT	GTATATGAGTTGGCT	TACAAAAGCTATT	AACAAATCAAGCA	ATTGTGTAATTTA	TATATGAGACT	cDNA

Match line to Fig. 3F

Fig. 3E









Replacement Sheet

Match line to Fig. 4A

401 QLEYHTRHLIDGSIIDCDQRIGLVAGYMKDEVGILTSLL. AA Genomic  
401 QLEYHTRHLIDGSIIDCDQRIGLVAGYMKDEV. cDNA

441 TAYDN. SCTLMSMQVRNLSPPFCFMHLDVVRWVIVALRQMY AA Genomic  
433 . . . . . RNLSPFCFMHLDVVRWVIVALRQMY cDNA

481 DCNSDYGESCYRLLSRNGRFIYLHTKGFLEVDRGSNKVHS AA Genomic  
458 DCNSDYGESCYRLLSRNGRFIYLHTKGFLEVDRGSNKVHS cDNA

521 FLCVNTLLDEEAGRQKVQEMKEKFSTIIKAEMPTQSSSPD AA Genomic  
498 FLCVNTLLDEEAGRQKVQEMKEKFSTIIKAEMPTQSSSPD cDNA

561 LPASQAPQQLERIVLYLIENLQKSVDSAETVGGQGMESLM AA Genomic  
538 LPASQAPQQLERIVLYLIENLQKSVDSAETVGGQGMESLM cDNA

601 DDGYSSPANTLTLEELAPSPTPALALVPPAPSSVKSSI SK AA Genomic  
578 DDGYSSPANTLTLEELAPSPTPALALVPPAPSSVKSSI SK A cDNA

641 SVSVVNYTAARKFQQEHQKQRRERDREREQLKERTNSTQGVIR AA Genomic  
618 SVSVVNYTAARKFQQEHQKQRRERDREREQLKERTNSTQGVIR cDNA

681 QLSSCLSEAEATASCI LSPASSLSASEAPDTPDPHSNTSPP AA Genomic  
658 QLSSCLSEAEATASCI LSPASSLSASEAPDTPDPHSNTSPP cDNA

721 PSLHTRPSVLRHRTLSTTLR. AA Genomic  
698 PSLHTRPSVLRHRTLSTTLR. cDNA

Fig. 4B



1 ATGGCAGCACCAGAGACGGGCAACACGGGCTCCACAGGATCCGCTGGCTCGACAGGATCGGGATCGGGATCGGGAAGTGGGAGC A  
1 CAGCAGACGGGGCAACACGGGCACCAACAGGATCAGCTGGGTCCACA-----GGATCGGGATCGGGAACCTGGGACG B  
91 TCCTCAGATCCAGCGAA TGGACGGGAGGCCCGTAACCTTGCCGAAAAACAGCGACGGGATAAGCTTAATGCCAGCATCCAGGAGCT A  
72 TCCGCAGATCCAGCGAA TGGACGGGAGGCCCGCAATCTTGCCGAGGAACAGCGACGGGATAAGCTTAATGCCAGCATCCAGGAGCT B  
181 GGCTACCATGGTACCACATG - CAGCCGAA TCCTCCGTCGCCTGGACAAAAACCGCCGTCCTTAGATTGCGCCACCC A  
158 GGCTACCATGGTACCACATGTCAGCCGAA TCCTCCGACGCCTGGACAAAAACCGCCGTCCTCAGATTGCGCCACCC B

Fig. 5